Polarity Reinforcement (S332.3.8) Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Chem 332 – O’Dette Period \_\_\_\_ Date \_\_\_\_\_\_\_

**Fill out the following table:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Molecular Formula** | **Electron Dot Structure** | **Molecular Shape** | **Molecular Polarity** |
| 1. CH2Cl2 |  |  |  |
| 1. NH2Br |  |  |  |
| 1. BCl2I |  |  |  |
| 1. H2S |  |  |  |

**Fill in the following with the appropriate ranges:**

|  |  |
| --- | --- |
| **Bond Type** | **Electronegativity difference** |
| nonpolar covalent |  |
| polar covalent |  |
| ionic |  |

**Using the table you created above, determine whether the following are polar or nonpolar:**

1. AlP \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. LiF \_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. I2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. HCl \_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. CO \_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. CaS \_\_\_\_\_\_\_\_\_\_\_\_\_\_